U.S. Patent Application Serial No. 10/760,363 Response filed April 6, 2007

Reply to OA dated March 7, 2007

**AMENDMENTS TO THE CLAIMS:** 

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:** 

Claim 1 (Withdrawn): A data structure of a feature guidance information readable by a

computing section for providing guidance on a feature by the computing section when a movable

body is moved to a predetermined guidance position located ahead of position in a moving direction

of the movable body toward the feature,

wherein an area representing the position of the feature and the guidance position according

to a positional relationship shown in a map is divided into a plurality of sub-areas each of which

includes at most one of the feature position and the guidance position, the sub-areas respectively

being associated with unique mesh information, and

wherein a plurality of records including a unique feature information associated with the

respective features and a unique guidance position information on the feature respectively associated

with the guidance position of the feature, the records being further associated with the unique mesh

information to represent the position of the feature or the guidance information, is stored as one data.

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Claim 2 (Withdrawn): The data structure of a feature guidance information according to claim 1,

wherein the sub-areas are divided in a matrix, and

wherein the unique mesh information corresponds to the measure of the sub-areas each constituting a cell of the matrix in vertical and horizontal directions.

Claim 3 (Withdrawn): The data structure of a feature guidance information according to claim 1, wherein the guidance information of the guidance is recorded being associated with each data.

Claim 4 (Withdrawn): A recording medium storing a data structure of a feature guidance information readable by a computing section for providing guidance on a feature by the computing section when a movable body is moved to a predetermined guidance position located ahead of position in a moving direction of the movable body toward the feature,

wherein an area representing the position of the feature and the guidance position according to a positional relationship shown in a map is divided into a plurality of sub-areas each of which includes at most one of the feature position and the guidance position, the sub-areas respectively being associated with unique mesh information, and

wherein a plurality of records including a unique feature information associated with the respective features and a unique guidance position information on the feature respectively associated

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with the guidance position of the feature, the records being further associated with the unique mesh

information to represent the position of the feature or the guidance information, is stored as one data

in a manner readable by a computing section.

Claim 5 (Withdrawn): A recording medium storing a feature guidance information readable

by a computing section for providing guidance on a feature by the computing section when a

movable body is moved to a predetermined guidance position located ahead of the position of the

feature in a moving direction of the movable body toward the feature, the recording medium

comprising:

a feature data area that stores a unique feature information associated with the feature;

a guidance position data area that stores a unique guidance position information associated

with the guidance position of the feature; and

a mesh data area that stores a unique mesh information associated with a sub-area

representing the feature position and the guidance position, the sub-area being divided from an area

representing the feature position and the guidance position according to the positional relationship

shown in a map so that each sub-area includes at most one of the feature and the guidance position

in pairs.

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Claim 6 (Withdrawn): A recording medium storing a feature guidance information readable

by a computing section to provide guidance on a feature by the computing section when a movable

body is moved to a predetermined guidance position located ahead of the position of the feature in

a moving direction of the movable body toward the feature, the recording medium comprising:

a unique feature information associated with the respective features;

a unique guidance position information respectively associated with the guidance position

of the feature; and

a unique mesh information associated with a sub-area representing the feature position and

the guidance position, the sub-area being divided from an area representing the feature position and

the guidance position according to the positional relationship shown in a map so that each sub-area

includes at most one of the feature and the guidance position, the unique mesh information

associated with the unique feature information or the unique guidance position information to

represent the position of the feature or the guidance information,

wherein the unique feature information, the unique guidance position information and the

unique mesh information are recorded as the single feature guidance information.

Claim 7 (Currently Amended): A navigation device, comprising:

a feature guidance information acquiring section that acquires a feature guidance information

for providing guidance on a feature when a movable body is moved to a predetermined guidance

position located ahead of position in a moving direction of the movable body toward the feature

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based on a sub-area information on a plurality of sub-areas in each of which at most one of the position of the feature and the guidance position is included in a positional relationship shown on a map, the plurality of sub-areas being respectively associated with unique mesh information, a plurality of pairs of unique feature information associated with the feature and unique guidance position information associated with the guidance position on the feature being stored and respectively associated with the unique mesh information, based on a data structure of a feature guidance information readable by a computing section for providing guidance on a feature by the computing section when a movable body is moved to a predetermined guidance position located ahead of position in a moving direction of the movable body toward the feature,

wherein an area representing the position of the feature and the guidance position according to a positional relationship shown in a map is divided into a plurality of sub-areas each of which includes at most one of the feature position and the guidance position, the sub-areas respectively being associated with unique mesh information, and

wherein a plurality of records including a unique feature information associated with the respective features and a unique guidance position information on the feature respectively associated with the guidance position of the feature, the records being further associated with the unique mesh information to represent the position of the feature or the guidance information, is stored as one data;

a current position information acquiring section that acquires a current position information for a current position of the movable body; and

a guidance providing section that provides guidance on a feature by recognizing that a

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movable body is positioned at a guidance position of the feature guidance information based on the acquired feature guidance information and the acquired current position information.

Claim 8 (Currently Amended): [[A]] <u>The</u> navigation device <u>according to claim 7</u>, comprising:

readable from a recording medium storing a data structure of a feature guidance information readable by a computing section for providing guidance on a feature by the computing section when a movable body is moved to a predetermined guidance position located ahead of position in a moving direction of the movable body toward the feature,

wherein an area representing the position of the feature and the guidance position according to a positional relationship shown in a map is divided into a plurality of sub-areas each of which includes at most one of the feature position and the guidance position, the sub-areas respectively being associated with unique mesh information, and

wherein a plurality of records including a unique feature information associated with the respective features and a unique guidance position information on the feature respectively associated with the guidance position of the feature, the records being further associated with the unique mesh information to represent the position of the feature or the guidance information, is stored as one data in a manner readable by a computing section;

a current position information acquiring section that acquires a current position information

for a current position of the movable body; and

a guidance providing section that provides guidance on a feature by recognizing that a movable body is positioned at a guidance position of the feature guidance information based on the acquired feature guidance information and the acquired current position information

wherein the feature guidance information is recorded in a manner readable by a computer.

Claim 9 (Currently Amended): [[A]] The navigation device according to claim 8, comprising:

readable from a recording medium storing a feature guidance information readable by a computing section for providing guidance on a feature by the computing section when a movable body is moved to a predetermined guidance position located ahead of the position of the feature in a moving direction of the movable body toward the feature, the recording medium comprising:

a feature data area that stores a unique feature information associated with the feature;
a guidance position data area that stores a unique guidance position information associated with the guidance position of the feature; and

a mesh data area that stores a unique mesh information associated with a sub-area representing the feature position and the guidance position, the sub-area being divided from an area representing the feature position and the guidance position according to the positional relationship shown in a map so that each sub-area includes at most one of the feature and the guidance position

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in pairs,

the navigation device, further comprising:

a current position information acquiring section that acquires a current position information for a current position of the movable body; and

a guidance providing section that provides guidance on a feature by recognizing that a movable body is positioned at a guidance position of the feature guidance information based on the acquired feature guidance information and the acquired current position information

wherein a feature data area that stores the unique feature information; and a mesh data area that stores the unique mesh information representing one of the sub-areas including the guidance position for the feature.

Claim 10 (Canceled).

Claim 11 (Withdrawn): A navigation device for providing guidance on a feature by a computing section when a movable body is moved to a predetermined guidance position located ahead of the position of the feature in a moving direction of the movable body toward the feature, the navigation device comprising:

a current position information acquiring section that acquires a current position information of a current position of the movable body;

a feature guidance information acquiring section that acquires a feature guidance information

including: a unique feature information associated with the respective features; a unique guidance

position information respectively associated with the guidance position of the feature; and a unique

mesh information associated with a sub-area representing the feature position and the guidance

position, the sub-area being divided from an area representing the feature position and the guidance

position according to the positional relationship shown in a map so that each sub-area includes at

most one of the feature and the guidance position, the unique mesh information associated with the

unique feature information or the unique guidance position information to represent the position of

the feature or the guidance information; and

a guidance providing section that provides guidance on the corresponding feature associated

with the guidance position, by recognizing that the movable body is positioned at the guidance

position represented by the unique mesh information associated with a predetermined sub-area, when

the movable body is moved to a position corresponding to the predetermined sub-area of the feature

guidance information, based on the current position information and the feature guidance

information.

Claim 12 (Original): The navigation device according to claim 7, further comprising:

a guidance information acquiring section that acquires the guidance information of the

guidance on the feature while being associated with the feature position or the guidance position,

wherein the guidance providing section provides the guidance based on the guidance

information corresponding to the guidance position by recognizing that the movable body is

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positioned at the guidance position.

Claim 13 (Original): The navigation device according to claim 8, further comprising:

a guidance information acquiring section that acquires the guidance information of the

guidance on the feature while being associated with the feature position or the guidance position,

wherein the guidance providing section provides the guidance based on the guidance

information corresponding to the guidance position by recognizing that the movable body is

positioned at the guidance position.

Claim 14 (Original): The navigation device according to claim 9, further comprising:

a guidance information acquiring section that acquires the guidance information of the

guidance on the feature while being associated with the feature position or the guidance position,

wherein the guidance providing section provides the guidance based on the guidance

information corresponding to the guidance position by recognizing that the movable body is

positioned at the guidance position.

Claim 15 (Canceled).

Claim 16 (Withdrawn): The navigation device according to claim 11, further comprising:

a guidance information acquiring section that acquires the guidance information of the

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guidance on the feature while being associated with the feature position or the guidance position,

wherein the guidance providing section provides the guidance based on the guidance

information corresponding to the guidance position by recognizing that the movable body is

positioned at the guidance position.

Claim 17 (Withdrawn): A navigation system, comprising:

a server unit provided with a storage that stores a feature guidance information based on a

data structure of a feature guidance information readable by a computing section for providing

guidance on a feature by the computing section when a movable body is moved to a predetermined

guidance position located ahead of position in a moving direction of the movable body toward the

feature,

wherein an area representing the position of the feature and the guidance position according

to a positional relationship shown in a map is divided into a plurality of sub-areas each of which

includes at most one of the feature position and the guidance position, the sub-areas respectively

being associated with unique mesh information, and

wherein a plurality of records including a unique feature information associated with the

respective features and a unique guidance position information on the feature respectively associated

with the guidance position of the feature, the records being further associated with the unique mesh

information to represent the position of the feature or the guidance information, is stored as one data;

and

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a terminal unit connected to the server unit in a manner capable of communicating over

network, the terminal unit including: a feature guidance information acquiring section that acquires

a feature guidance information; a current position information acquiring section that acquires a

current position information associated with a current position of the movable body; and a guidance

providing section that provides guidance on a feature by recognizing that a movable body is

positioned at a guidance position of the feature based on the feature guidance information and the

current position information.

Claim 18 (Withdrawn): A navigation system, comprising:

a server unit provided with a storage that stores a feature guidance information readable from

a recording medium storing a data structure of a feature guidance information readable by a

computing section for providing guidance on a feature by the computing section when a movable

body is moved to a predetermined guidance position located ahead of position in a moving direction

of the movable body toward the feature,

wherein an area representing the position of the feature and the guidance position according

to a positional relationship shown in a map is divided into a plurality of sub-areas each of which

includes at most one of the feature position and the guidance position, the sub-areas respectively

being associated with unique mesh information, and

wherein a plurality of records including a unique feature information associated with the

respective features and a unique guidance position information on the feature respectively associated

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with the guidance position of the feature, the records being further associated with the unique mesh

information to represent the position of the feature or the guidance information, is stored as one data

in a manner readable by a computing section; and

a terminal unit connected to the server unit in a manner capable of communicating over

network, the terminal unit including: a feature guidance information acquiring section that acquires

a feature guidance information; a current position information acquiring section that acquires a

current position information associated with a current position of the movable body; and a guidance

providing section that provides guidance on a feature by recognizing that a movable body is

positioned at a guidance position of the feature based on the feature guidance information and the

current position information.

Claim 19 (Withdrawn): A navigation system, comprising:

a server unit provided with a storage that stores a feature guidance information readable from

a recording medium storing a feature guidance information readable by a computing section for

providing guidance on a feature by the computing section when a movable body is moved to a

predetermined guidance position located ahead of the position of the feature in a moving direction

of the movable body toward the feature, the recording medium comprising:

a feature data area that stores a unique feature information associated with the feature;

a guidance position data area that stores a unique guidance position information associated

with the guidance position of the feature; and

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a mesh data area that stores a unique mesh information associated with a sub-area

representing the feature position and the guidance position, the sub-area being divided from an area

representing the feature position and the guidance position according to the positional relationship

shown in a map so that each sub-area includes at most one of the feature and the guidance position

in pairs,

the navigation system, further comprising a terminal unit connected to the server unit in a

manner capable of communicating over network, the terminal unit including: a feature guidance

information acquiring section that acquires a feature guidance information; a current position

information acquiring section that acquires a current position information associated with a current

position of the movable body; and a guidance providing section that provides guidance on a feature

by recognizing that a movable body is positioned at a guidance position of the feature based on the

feature guidance information and the current position information.

Claim 20 (Withdrawn): A navigation system, comprising:

a server unit provided with a storage that stores a feature guidance information readable from

a recording medium storing a feature guidance information readable by a computing section to

provide guidance on a feature by the computing section when a movable body is moved to a

predetermined guidance position located ahead of the position of the feature in a moving direction

of the movable body toward the feature, the recording medium comprising:

a unique feature information associated with the respective features;

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a unique guidance position information respectively associated with the guidance position

of the feature; and

a unique mesh information associated with a sub-area representing the feature position and

the guidance position, the sub-area being divided from an area representing the feature position and

the guidance position according to the positional relationship shown in a map so that each sub-area

includes at most one of the feature and the guidance position, the unique mesh information

associated with the unique feature information or the unique guidance position information to

represent the position of the feature or the guidance information,

wherein the unique feature information, the unique guidance position information and the

unique mesh information are recorded as the single feature guidance information,

the navigation system, further comprising a terminal unit connected to the server unit in a

manner capable of communicating over network, the terminal unit including: a feature guidance

information acquiring section that acquires a feature guidance information; a current position

information acquiring section that acquires a current position information associated with a current

position of the movable body; and a guidance providing section that provides guidance on a feature

by recognizing that a movable body is positioned at a guidance position of the feature based on the

feature guidance information and the current position information.

Claim 21 (Withdrawn): A navigation system for providing guidance on a feature by a

computing section when a movable body is moved to a predetermined guidance position located

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ahead of the position of the feature in a moving direction of the movable body toward the feature,

the navigation system comprising:

a server unit provided with a storage that stores feature guidance information, the server unit

including: a unique feature information associated with the respective features; a unique guidance

position information respectively associated with the guidance position of the feature; and a unique

mesh information associated with a sub-area representing the feature position and the guidance

position, the sub-area being divided from an area representing the feature position and the guidance

position according to the positional relationship shown in a map so that each sub-area includes at

most one of the feature and the guidance position, the unique mesh information associated with the

unique feature information or the unique guidance position information to represent the position of

the feature or the guidance information; and

a terminal unit connected to the server unit in a manner capable of communicating over

network, the terminal unit including: a feature guidance information acquiring section that acquires

a feature guidance information; a current position information acquiring section that acquires a

current position information associated with a current position of the movable body; a guidance

providing section that provides guidance on a feature by recognizing that a movable body is

positioned at a guidance position of the feature based on the feature guidance information and the

current position information.

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Claim 22 (Withdrawn): The navigation system according to claim 17, wherein the guidance

providing section recognizes that the movable body is positioned at the guidance position

represented by the unique mesh information associated with a predetermined sub-area when the

movable body is moved to a position corresponding to the predetermined sub-area of the feature

guidance information.

Claim 23 (Withdrawn): The navigation system according to claim 18, wherein the guidance

providing section recognizes that the movable body is positioned at the guidance position

represented by the unique mesh information associated with a predetermined sub-area when the

movable body is moved to a position corresponding to the predetermined sub-area of the feature

guidance information.

Claim 24 (Withdrawn): The navigation system according to claim 19, wherein the guidance

providing section recognizes that the movable body is positioned at the guidance position

represented by the unique mesh information associated with a predetermined sub-area when the

movable body is moved to a position corresponding to the predetermined sub-area of the feature

guidance information.

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Claim 25 (Withdrawn): The navigation system according to claim 20, wherein the guidance

providing section recognizes that the movable body is positioned at the guidance position

represented by the unique mesh information associated with a predetermined sub-area when the

movable body is moved to a position corresponding to the predetermined sub-area of the feature

guidance information.

Claim 26 (Withdrawn): The navigation system according to claim 21, wherein the guidance

providing section recognizes that the movable body is positioned at the guidance position

represented by the unique mesh information associated with a predetermined sub-area when the

movable body is moved to a position corresponding to the predetermined sub-area of the feature

guidance information.

Claim 27 (Withdrawn): A navigation method for providing guidance on a feature by a

computing section when a movable body is moved to a predetermined guidance position located

ahead of the position of the feature in a moving direction of the movable body toward the feature,

the method comprising the steps of:

acquiring a feature guidance information including: a unique feature information associated

with the respective features; a unique guidance position information respectively associated with the

guidance position of the feature; and a unique mesh information associated with a sub-area

representing the feature position and the guidance position, the sub-area being divided from an area

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representing the feature position and the guidance position according to the positional relationship

shown in a map so that each sub-area includes at most one of the feature and the guidance position,

the unique mesh information associated with the unique feature information or the unique guidance

position information to represent the position of the feature or the guidance information; and

providing guidance on the feature by recognizing that the movable body is positioned at the

guidance position of the feature based on the feature guidance information and the current position

information.

Claim 28 (Withdrawn): A navigation method, comprising the steps of:

reading a feature guidance information based on a data structure of a feature guidance

information readable by a computing section for providing guidance on a feature by the computing

section when a movable body is moved to a predetermined guidance position located ahead of

position in a moving direction of the movable body toward the feature,

wherein an area representing the position of the feature and the guidance position according

to a positional relationship shown in a map is divided into a plurality of sub-areas each of which

includes at most one of the feature position and the guidance position, the sub-areas respectively

being associated with unique mesh information, and

wherein a plurality of records including a unique feature information associated with the

respective features and a unique guidance position information on the feature respectively associated

with the guidance position of the feature, the records being further associated with the unique mesh

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information to represent the position of the feature or the guidance information, is stored as one data,

the method, further comprising the steps of:

acquiring a current position information associated with a current position of a movable

body; and

providing guidance on a feature by recognizing that the movable body is positioned at a

guidance position of the feature based on the feature guidance information and the current position

information.

Claim 29 (Withdrawn): A navigation method, comprising the steps of:

reading a feature guidance information readable from a recording medium storing a data

structure of a feature guidance information readable by a computing section for providing guidance

on a feature by the computing section when a movable body is moved to a predetermined guidance

position located ahead of position in a moving direction of the movable body toward the feature,

wherein an area representing the position of the feature and the guidance position according

to a positional relationship shown in a map is divided into a plurality of sub-areas each of which

includes at most one of the feature position and the guidance position, the sub-areas respectively

being associated with unique mesh information, and

wherein a plurality of records including a unique feature information associated with the

respective features and a unique guidance position information on the feature respectively associated

with the guidance position of the feature, the records being further associated with the unique mesh

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in a manner readable by a computing section,

the method, further comprising the steps of:

acquiring a current position information associated with a current position of a movable body; and

providing guidance on a feature by recognizing that the movable body is positioned at a guidance position of the feature based on the feature guidance information and the current position information.

Claim 30 (Withdrawn): A navigation method, comprising the steps of:

reading a feature guidance information readable from a recording medium storing a feature guidance information readable by a computing section for providing guidance on a feature by the computing section when a movable body is moved to a predetermined guidance position located ahead of the position of the feature in a moving direction of the movable body toward the feature, the recording medium comprising:

- a feature data area that stores a unique feature information associated with the feature;
- a guidance position data area that stores a unique guidance position information associated with the guidance position of the feature; and
- a mesh data area that stores a unique mesh information associated with a sub-area representing the feature position and the guidance position, the sub-area being divided from an area

representing the feature position and the guidance position according to the positional relationship shown in a map so that each sub-area includes at most one of the feature and the guidance position in pairs,

the method, further comprising the steps of:

acquiring a current position information associated with a current position of a movable body; and

providing guidance on a feature by recognizing that the movable body is positioned at a guidance position of the feature based on the feature guidance information and the current position information.

Claim 31 (Withdrawn): A navigation method, comprising the steps of:

reading a feature guidance information readable from a recording medium storing a feature guidance information readable by a computing section to provide guidance on a feature by the computing section when a movable body is moved to a predetermined guidance position located ahead of the position of the feature in a moving direction of the movable body toward the feature, the recording medium comprising:

a unique feature information associated with the respective features;

a unique guidance position information respectively associated with the guidance position of the feature; and

a unique mesh information associated with a sub-area representing the feature position and

the guidance position, the sub-area being divided from an area representing the feature position and

the guidance position according to the positional relationship shown in a map so that each sub-area

includes at most one of the feature and the guidance position, the unique mesh information

associated with the unique feature information or the unique guidance position information to

represent the position of the feature or the guidance information,

wherein the unique feature information, the unique guidance position information and the

unique mesh information are recorded as the single feature guidance information,

the method, further comprising the steps of:

acquiring a current position information associated with a current position of a movable

body; and

providing guidance on a feature by recognizing that the movable body is positioned at a

guidance position of the feature based on the feature guidance information and the current position

information.

Claim 32 (Withdrawn): A navigation program executing a navigation method for providing

guidance on a feature by a computing section when a movable body is moved to a predetermined

guidance position located ahead of the position of the feature in a moving direction of the movable

body toward the feature, the program being executed by a computing section, the method comprising

the steps of:

acquiring a feature guidance information including: a unique feature information associated

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with the respective features; a unique guidance position information respectively associated with the

guidance position of the feature; and a unique mesh information associated with a sub-area

representing the feature position and the guidance position, the sub-area being divided from an area

representing the feature position and the guidance position according to the positional relationship

shown in a map so that each sub-area includes at most one of the feature and the guidance position,

the unique mesh information associated with the unique feature information or the unique guidance

position information to represent the position of the feature or the guidance information; and

providing guidance on the feature by recognizing that the movable body is positioned at the

guidance position of the feature based on the feature guidance information and the current position

information.

Claim 33 (Withdrawn): A navigation program executing a navigation method by a

computing section, the method comprising the steps of:

reading a feature guidance information based on a data structure of a feature guidance

information readable by a computing section for providing guidance on a feature by the computing

section when a movable body is moved to a predetermined guidance position located ahead of

position in a moving direction of the movable body toward the feature,

wherein an area representing the position of the feature and the guidance position according

to a positional relationship shown in a map is divided into a plurality of sub-areas each of which

includes at most one of the feature position and the guidance position, the sub-areas respectively

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being associated with unique mesh information, and

wherein a plurality of records including a unique feature information associated with the

respective features and a unique guidance position information on the feature respectively associated

with the guidance position of the feature, the records being further associated with the unique mesh

information to represent the position of the feature or the guidance information, is stored as one data,

the method, further comprising the steps of:

acquiring a current position information associated with a current position of a movable

body; and

providing guidance on a feature by recognizing that the movable body is positioned at a

guidance position of the feature based on the feature guidance information and the current position

information.

Claim 34 (Withdrawn): A navigation program executing a navigation method by a

computing section, the method comprising the steps of:

reading a feature guidance information readable from a recording medium storing a data

structure of a feature guidance information readable by a computing section for providing guidance

on a feature by the computing section when a movable body is moved to a predetermined guidance

position located ahead of position in a moving direction of the movable body toward the feature,

wherein an area representing the position of the feature and the guidance position according

to a positional relationship shown in a map is divided into a plurality of sub-areas each of which

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includes at most one of the feature position and the guidance position, the sub-areas respectively

being associated with unique mesh information, and

wherein a plurality of records including a unique feature information associated with the

respective features and a unique guidance position information on the feature respectively associated

with the guidance position of the feature, the records being further associated with the unique mesh

information to represent the position of the feature or the guidance information, is stored as one data

in a manner readable by a computing section,

the method, further comprising the steps of:

acquiring a current position information associated with a current position of a movable

body; and

providing guidance on a feature by recognizing that the movable body is positioned at a

guidance position of the feature based on the feature guidance information and the current position

information.

Claim 35 (Withdrawn): A navigation program executing a navigation method by a

computing section, the method comprising the steps of:

reading a feature guidance information readable from a recording medium storing a feature

guidance information readable by a computing section for providing guidance on a feature by the

computing section when a movable body is moved to a predetermined guidance position located

ahead of the position of the feature in a moving direction of the movable body toward the feature,

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the recording medium comprising:

a feature data area that stores a unique feature information associated with the feature;

a guidance position data area that stores a unique guidance position information associated with the guidance position of the feature; and

a mesh data area that stores a unique mesh information associated with a sub-area representing the feature position and the guidance position, the sub-area being divided from an area representing the feature position and the guidance position according to the positional relationship shown in a map so that each sub-area includes at most one of the feature and the guidance position in pairs,

the method, further comprising the steps of:

acquiring a current position information associated with a current position of a movable body; and

providing guidance on a feature by recognizing that the movable body is positioned at a guidance position of the feature based on the feature guidance information and the current position information.

Claim 36 (Withdrawn): A navigation program executing a navigation method by a computing section, the method comprising the steps of:

reading a feature guidance information readable from the recording medium storing a feature guidance information readable by a computing section to provide guidance on a feature by the

computing section when a movable body is moved to a predetermined guidance position located

ahead of the position of the feature in a moving direction of the movable body toward the feature,

the recording medium comprising:

a unique feature information associated with the respective features;

a unique guidance position information respectively associated with the guidance position

of the feature; and

a unique mesh information associated with a sub-area representing the feature position and

the guidance position, the sub-area being divided from an area representing the feature position and

the guidance position according to the positional relationship shown in a map so that each sub-area

includes at most one of the feature and the guidance position, the unique mesh information

associated with the unique feature information or the unique guidance position information to

represent the position of the feature or the guidance information,

wherein the unique feature information, the unique guidance position information and the

unique mesh information are recorded as the single feature guidance information,

the method, further comprising the steps of:

acquiring a current position information associated with a current position of a movable

body; and

providing guidance on a feature by recognizing that the movable body is positioned at a

guidance position of the feature based on the feature guidance information and the current position

information.

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Claim 37 (Withdrawn): A recording medium storing a navigation program in a manner

readable by a computing section, the program executing a navigation method for providing guidance

on a feature by a computing section when a movable body is moved to a predetermined guidance

position located ahead of the position of the feature in a moving direction of the movable body

toward the feature, the program being executed by a computing section, the method comprising the

steps of:

acquiring a feature guidance information including: a unique feature information associated

with the respective features; a unique guidance position information respectively associated with the

guidance position of the feature; and a unique mesh information associated with a sub-area

representing the feature position and the guidance position, the sub-area being divided from an area

representing the feature position and the guidance position according to the positional relationship

shown in a map so that each sub-area includes at most one of the feature and the guidance position,

the unique mesh information associated with the unique feature information or the unique guidance

position information to represent the position of the feature or the guidance information; and

providing guidance on the feature by recognizing that the movable body is positioned at the

guidance position of the feature based on the feature guidance information and the current position

information.

Claim 38 (Withdrawn): A recording medium storing a navigation program in a manner

readable by a computing section, the program executing a navigation method by a computing section,

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the method comprising the steps of:

reading a feature guidance information based on a data structure of a feature guidance information readable by a computing section for providing guidance on a feature by the computing section when a movable body is moved to a predetermined guidance position located ahead of position in a moving direction of the movable body toward the feature,

wherein an area representing the position of the feature and the guidance position according to a positional relationship shown in a map is divided into a plurality of sub-areas each of which includes at most one of the feature position and the guidance position, the sub-areas respectively being associated with unique mesh information, and

wherein a plurality of records including a unique feature information associated with the respective features and a unique guidance position information on the feature respectively associated with the guidance position of the feature, the records being further associated with the unique mesh information to represent the position of the feature or the guidance information, is stored as one data,

the method, further comprising the steps of:

acquiring a current position information associated with a current position of a movable body; and

providing guidance on a feature by recognizing that the movable body is positioned at a guidance position of the feature based on the feature guidance information and the current position information.

Claim 39 (Withdrawn): A recording medium storing a navigation program in a manner

readable by a computing section, the program executing a navigation method by a computing section,

the method comprising the steps of:

reading a feature guidance information readable from a recording medium storing a data

structure of a feature guidance information readable by a computing section for providing guidance

on a feature by the computing section when a movable body is moved to a predetermined guidance

position located ahead of position in a moving direction of the movable body toward the feature,

wherein an area representing the position of the feature and the guidance position according

to a positional relationship shown in a map is divided into a plurality of sub-areas each of which

includes at most one of the feature position and the guidance position, the sub-areas respectively

being associated with unique mesh information, and

wherein a plurality of records including a unique feature information associated with the

respective features and a unique guidance position information on the feature respectively associated

with the guidance position of the feature, the records being further associated with the unique mesh

information to represent the position of the feature or the guidance information, is stored as one data

in a manner readable by a computing section,

the method, further comprising the steps of:

acquiring a current position information associated with a current position of a movable

body; and

providing guidance on a feature by recognizing that the movable body is positioned at a

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guidance position of the feature based on the feature guidance information and the current position

information.

Claim 40 (Withdrawn): A recording medium storing a navigation program in a manner

readable by a computing section, the program executing a navigation method by a computing section,

the method comprising the steps of:

reading a feature guidance information readable from a recording medium storing a feature

guidance information readable by a computing section for providing guidance on a feature by the

computing section when a movable body is moved to a predetermined guidance position located

ahead of the position of the feature in a moving direction of the movable body toward the feature,

the recording medium comprising:

a feature data area that stores a unique feature information associated with the feature;

a guidance position data area that stores a unique guidance position information associated

with the guidance position of the feature; and

a mesh data area that stores a unique mesh information associated with a sub-area

representing the feature position and the guidance position, the sub-area being divided from an area

representing the feature position and the guidance position according to the positional relationship

shown in a map so that each sub-area includes at most one of the feature and the guidance position

in pairs,

the method, further comprising the steps of:

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acquiring a current position information associated with a current position of a movable body; and

providing guidance on a feature by recognizing that the movable body is positioned at a guidance position of the feature based on the feature guidance information and the current position information.

Claim 41 (Withdrawn): A recording medium storing a navigation program in a manner readable by a computing section, the program executing a navigation method by a computing section, the method comprising the steps of:

reading a feature guidance information readable from the recording medium storing a feature guidance information readable by a computing section to provide guidance on a feature by the computing section when a movable body is moved to a predetermined guidance position located ahead of the position of the feature in a moving direction of the movable body toward the feature, the recording medium comprising:

a unique feature information associated with the respective features;

a unique guidance position information respectively associated with the guidance position of the feature; and

a unique mesh information associated with a sub-area representing the feature position and the guidance position, the sub-area being divided from an area representing the feature position and the guidance position according to the positional relationship shown in a map so that each sub-area U.S. Patent Application Serial No. 10/760,363 Response filed April 6, 2007 Reply to OA dated March 7, 2007

includes at most one of the feature and the guidance position, the unique mesh information associated with the unique feature information or the unique guidance position information to represent the position of the feature or the guidance information,

wherein the unique feature information, the unique guidance position information and the unique mesh information are recorded as the single feature guidance information,

the method, further comprising the steps of:

acquiring a current position information associated with a current position of a movable body; and

providing guidance on a feature by recognizing that the movable body is positioned at a guidance position of the feature based on the feature guidance information and the current position information.